NC/QC/W-13/2018-19/SB-BC1 **Date: 26-09-2018**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements of Asphalting at Balance Road at Shooting Bungalow Road and other Roads in Mallasandra Ward No. 13 Shettyhalli Sub Division}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.65**	90-100
9.5	**82.10**	70-88
4.75	**61.80**	53-71
2.36	**49.05**	42-58
1.18	**43.70**	34-48
0.600	**35.95**	26-38
0.300	**19.30**	18-28
0.150	**13.80**	12-20
0.075	**6.35**	4-10

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M.E. (Civil-Engg)

For Newzen Consultants Bangalore

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NC/QC/W-13/2018-19/SB-BS1 **Date: 27-09-2018**

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements of Asphalting at Balance Road at Shooting Bungalow Road and other Roads in Mallasandra Ward No. 13 Shettyhalli Sub Division}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1380**	900
2	Marshall Flow at 60°C, mm.	**3.41**	2.0 - 4.0

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Page No. 1/1

For Newzen Consultants Bangal
Proprietor

NC/QC/W-13/2018-19/SB-BC2 Date: 27-09-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements of Asphalting at Balance Road at Shooting Bungalow Road and other Roads in Mallasandra Ward No. 13 Shettyhalli Sub Division}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.40 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.05**	90-100
9.5	**86.70**	70-88
4.75	**68.20**	53-71
2.36	**50.95**	42-58
1.18	**37.10**	34-48
0.600	**29.40**	26-38
0.300	**20.85**	18-28
0.150	**14.20**	12-20
0.075	**7.35**	4-10

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NC/QC/W-13/2018-19/SB-BS2 Date: 28-09-2018

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements of Asphalting at Balance Road at Shooting Bungalow Road and other Roads in Mallasandra Ward No. 13 Shettyhalli Sub Division}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1334**	900
2	Marshall Flow at 60°C, mm.	**3.63**	2.0 - 4.0

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NC/QC/W-13/2018-19/SB-BC3 **Date: 28-09-2018**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements of Asphalting at Balance Road at Shooting Bungalow Road and other Roads in Mallasandra Ward No. 13 Shettyhalli Sub Division}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.44 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**98.35**	90-100
9.5	**86.05**	70-88
4.75	**59.20**	53-71
2.36	**56.40**	42-58
1.18	**45.95**	34-48
0.600	**32.80**	26-38
0.300	**24.30**	18-28
0.150	**17.75**	12-20
0.075	**9.10**	4-10

For Newzen Consultants Bangalore

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